## Rule CIC253

Default value was specified for the MROLRM keyword

**Finding:** CPExpert noticed that the default value for MROLRM was specified in the

System Initialization Table (SIT).

**Impact:** This finding should normally have a MEDIUM IMPACT on the performance

of the CICS region.

**Logic flow:** This is a basic finding, based upon an analysis of the daily CICS statistics.

**Discussion:** The life of mirror transactions in a MRO environment can be extended by specifying MROLRM=YES in the SIT. The default specification is MROLRM=NO.

- Setting MROLRM=NO causes the mirror transaction to be attached and detached for each function-shipped request until (1) the first request for a recoverable resource or (2) a file control Start Browse is received. After such a request is received, the mirror transaction remains attached to the session until the calling transaction reaches syncpoint.
- Setting MROLRM=YES in the CICS region which receives function shipping requests causes a mirror transaction to remain attached to the MRO session from first request until the calling transaction reaches syncpoint. IBM reports that this option has systemdependent effects:
  - Some systems show significant improvements in processor utilization per transaction when using MROLRM=YES. Systems which show the most improvement are typically systems with a significant percentage of inquiry transactions, where each transaction has multiple VSAM calls. Other systems which show significant improvement are transactions with many reads followed by a few updates.
  - Some systems show no performance improvement. This category may include workloads using IMS/ESA or transactions that significantly use VSAM update or browse.
  - Some systems could be degraded because there is an extra flow at syncpoint. For example, a system with a very simple inquiry transaction workload might show some degradation.

Beginning with the CICS Performance Guide for CICS Version 3.2, IBM recommends that the default be overridden to specify MROLRM=YES for regions receiving function shipping requests. While IBM began making this recommendation only in the CICS Version 3.2 CICS Performance Guide, the recommendation applies to CICS Versions prior to Version 3.2.

Suggestion: CPExpert suggests that you consider specifying MROLRM=YES in the SIT

for this region.

Reference: CICS/MVS Version 2.1.2 Performance Guide: page 216.

CICS/ESA Version 3.1.1 Performance Guide: page 280.

CICS/ESA Version 3.2.1 Performance Guide: page 223.

CICS/ESA Version 3.3.1 Performance Guide: page 241.

CICS/ESA Version 4.1.1 Performance Guide: Section 4.8.5.

CICS/TS Release 1.1 Performance Guide: Section 4.8.5.

CICS/TS Release 1.2 Performance Guide: Section 4.8.5.

CICS/TS Release 1.3 Performance Guide: Section 4.12.5.

CICS/TS for z/OS Release 2.1 *Performance Guide*: Chapter 24 (MRO and ISC - Batching requests (MROBTCH)).

CICS/TS for z/OS Release 2.2 *Performance Guide*: Section 4.11.5 (Batching requests).